

Sheldrake, Sean

From: Sheldrake, Sean
Sent: Monday, August 11, 2014 10:29 AM
To: bayuk.dana@deq.state.or.us
Cc: Lance Peterson (PetersonLE@cdmsmith.com)
Subject: FW: Gasco GW Model Update Report Revisions - Redline Table and Figures
Attachments: Table_2_Model_Assumption_Limitations_2014-08-15_redlines.pdf; Revised_Figures_2_4_6_8_20140807.pdf; Locations_of_Additional_Model_Cross_sections.pdf

Dana,

EPA completed a review of the information transmitted on 8/7 by Anchor QEA on behalf of NW Natural. The changes to Table 2 and model x-section figure revisions are acceptable. Please note that EPA did not review the 3rd party model reports referenced in Table 2 as the source for certain initial model input values, but acknowledge the input values are adequately documented for future reference.

Let me know if you have any questions.

Thank you.

S

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From: Pradeep Mugunthan [<mailto:pmugunthan@anchorgea.com>]
Sent: Thursday, August 07, 2014 4:27 PM
To: Dana Bayuk; LARSEN Henning; Coffey, Scott; Peterson, Lance
Cc: Bob Wyatt; Patty Dost; John Edwards; Ben Hung; John Renda; Carl Stivers; Michael Riley
Subject: Gasco GW Model Update Report Revisions - Redline Table and Figures

Dana,

Attached please find a redline version of the Table 2 of the Model Update Report (redline edits start on Page 3 of the PDF) and model cross-section figures (Figures 4,6,8 and 10), revised in response to comments received during the June submittal of the Revised Final Model Update Report and following recent conference call discussions regarding the same. Here are a few things to note on the figures:

1. Figure 2 of the June submittal of the report provides the layout of cross-sections B-B', C-C' and F-F'
2. Figure 4 shows an extended version of model cross-section along A-A', which we discussed during our conference calls. In addition, as per your request, we have included three new model cross-sections; two along the river (A1-A1' and A2-A2', shown in Figures 4b and 4c respectively); and, cross-section E-E' (Figure 10b). The

locations of these cross-sections are not available on Figure 2, and therefore, we have provided their approximate layout in "Locations_of_Additional_Model_Cross_sections.pdf"

3. Please note that in the final report we will include these additional cross-sections in an Appendix. For the main report Figure 4 showing A-A' will be revised to the extent shown with previous submittals, and in the new model cross-section figures will be renumbered in the Appendix.

Can you please let me know if the revisions are acceptable to DEQ? Upon confirmation, we will finalize the report and submit per the schedule in Henning's e-mail below.

Thank you.
Pradeep

Pradeep Mugunthan, Ph.D., P.E.

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From: LARSEN Henning [<mailto:LARSEN.Henning@deq.state.or.us>]

Sent: Thursday, July 31, 2014 1:30 PM

To: Pradeep Mugunthan

Cc: John Edwards; Ben Hung; John Renda; Bob Wyatt; Lance Peterson (PetersonLE@cdm.com) (PetersonLE@cdm.com); Dana Bayuk

Subject: RE: Gasco GW Model Update Report Revisions - Extension Request

Pradeep (b) (6) On Dana's behalf I am approving your request for extensions on the schedule for submitting the revised figures and the revised model update report. DEQ understands the figures will now be submitted by NWNG on August 7, 2014 while the revised final model update report will be submitted August 14, 2014. Thank you for the notice.

Henning

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From: Pradeep Mugunthan [<mailto:pmugunthan@anchorqea.com>]

Sent: Thursday, July 31, 2014 12:47 PM

To: BAYUK Dana

Cc: John Edwards; Michael Riley; Ben Hung; John Renda; Carl Stivers; Bob Wyatt; Patty Dost; Coffey, Scott (CoffeySE@cdmsmith.com); LARSEN Henning; Lance Peterson (PetersonLE@cdm.com) (PetersonLE@cdm.com); Sean Sheldrake

Subject: RE: Gasco GW Model Update Report Revisions - Extension Request

Dana,

We are revising the Model Update Report as per the series of discussions we have had in the last two weeks. As discussed last week over the phone, we are requesting an extension to August 7th for submitting the revised figures referred below and a redline version of Table 2. We are also requesting an extension to August 14th for submitting the revised final model update report. In addition to the revisions needed per our discussions, these extensions are also partly being requested to accommodate client and staff vacation schedules to allow for internal review.

Please let me know if you have any questions or concerns.

Thanks.
Pradeep

Pradeep Mugunthan, Ph.D., P.E.

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From: Pradeep Mugunthan

Sent: Wednesday, July 16, 2014 12:04 PM

To: Dana Bayuk (BAYUK.Dana@deq.state.or.us)

Cc: John Edwards; Michael Riley; Ben Hung

Subject: Gasco GW Model Update Report Revisions - Follow-up on Telephone Conversation

Dana,

To follow-up on our telephone conversation attached are the pages from the March 2014 report, with model cross-section Figures 4,6,8 and 10. These were updated in the June 2014 report.

Also, as per our conversation we are requesting an extension to August 6th for responding to the DEQ and EPA comments on the June 2014 version of the Model Update Report and submitting a revised version of the report. Please let me know if you have any questions or concerns.

Thanks.
Pradeep

Pradeep Mugunthan, Ph.D., P.E.

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